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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,143	06/30/2003	Boris Ginzburg	P-5751-US	8189	
27130 7	10/03/2005	EXAM	EXAMINER		
EITAN, PEARL, LATZER & COHEN ZEDEK LLP 10 ROCKEFELLER PLAZA, SUITE 1001			FIGUEROA,	FIGUEROA, MARISOL	
	RK, NY 10020		ART UNIT	PAPER NUMBER	
•			2681		
			DATE MAILED: 10/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Astion Comments		Application No.	Applicant(s)				
		10/608,143	GINZBURG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Marisol Figueroa	2681				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DONA IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status			·				
1) ズ	Responsive to communication(s) filed on 11 July 2003.						
·		action is non-final.					
· —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/١	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
	Claim(s) <u>1-39</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· —	Claim(s) is/are allowed.						
· ·	Claim(s) <u>1-39</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[_]	8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
7.	1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
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Attachmen							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	atent Application (PTO-152)				
Pape	r No(s)/Mail Date	6)					

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DETAILED ACTION

1. This Action is in response to applicant's amendment filed on July 11, 2005. Claims 1-39 are still pending in the present application. The rejections not addressed below have been withdrawn.

Response to Arguments

2.. Applicant's arguments filed on July 11, 2005 have been fully considered but they are not persuasive.

Regarding claims 1 and 13, the Applicant basically argues that Larsoon et al. (US 6,643,307 B1) does not disclose, teach or suggests "transmitting during an awake mode of a wireless communication device one or more data packets sent for transmission during a power save mode of said wireless communication device" (Page 11, lines 21 – Page 12, lines 1-5). The Examiner respectfully disagrees, on column 4, lines 48-66 of Larsson, it clearly discloses that a base station transmits packets to a mobile terminal during an awake state of the mobile terminal, which were buffered in the base station during a power-saving sleep or hibernation sate of the mobile terminal. Therefore, Larsoon still overcome the independent claims 1 and 13 since it teaches the limitations of the currently amended claims 1 and 13.

Furthermore, the applicant argues, "independent claims 1 and 13 relate to a wireless communication device able to transmit, during its own awake mode, data packets sent for transmission during its own power save mode" and Larsson does not teach or suggests this limitation (Page 12, lines 1-5). The Examiner respectfully disagrees, Larsson teaches the limitations of the claims as they are written, the claims doesn't specifically read that the wireless communication device is the one device to transmit during its own awake mode packets sent for transmission during its own power save mode.

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Regarding claims 25, 30, and 36, the Applicant basically argues that Beach et al. (US 2004/0072588) does not disclose, teach or suggest "a buffer to store one or more data packets during a power save mode of said apparatus; and a transmitter to transmit said one or more data packets during an awake mode of said apparatus" (Page 12, lines 27 - Page 13, lines 1-11). The Examiner respectfully disagrees, on P.0005, lines 13-29; P.0006, lines 1-7; P.0020; and P.0021, lines 1-14; Beach discloses that a mobile unit signals its associated access point when it enters a power save mode, the transmitter and receiver are powered down, e.g. power save mode, at intervals corresponding to a selected period of time corresponding to a duration of audio or video signals forming an audio or video data packet; data is accumulated, i.e. buffered, during this time and used to form transmit data packets. Further, the mobile unit powers up its transmitter and receiver for establishing a communication session that includes transmitting accumulated transmit data packets and receiving buffered data packets from the base station (P.0005, lines 25-29). Although Beach doesn't specifically disclose that it accumulates transmit packets in a buffer this is inherent since a buffer is used to hold or collect data.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 5-6, 10-11, 13-15, 17-18, and 22-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Larsson et al. U.S. Patent 6,463,307.

Regarding claim 1, Larsson discloses a method comprising: transmitting during an awake mode of a wireless communication device one or more data packets sent for transmission during a power save mode of said wireless communication device (col.4, lines 48-66).

Regarding claim 2, Larsson discloses the method of claim 1, further comprising buffering said one or more data packets during said power save mode (col.4, lines 61-63).

Regarding claim 3, Larsson discloses the method of claim 2, wherein transmitting during an awake mode comprises transmitting said one or more packets in response to a wake-up trigger (col.4, lines 48-61; the BS begins transmission of the data packets after transmitting a paging message that awakens the mobile terminal and which the mobile terminal acknowledges).

Regarding claim 5, Larsson discloses the method of claim 3, wherein said wake-up trigger relates to an aggregate size of the one or more data packets (col.6, lines 27-33; the base station determines how often the mobile terminal should check for paging messages based on traffic contract of established connections, experienced traffic load, etc.).

Regarding claim 6, Larsson discloses the method of claim 3, wherein said wake-up trigger relates to a period of time during which no data packets are sent for transmission (col.4, lines 48-57; the mobile terminal awakens from a power-saving sleep or hibernation state for a period of time in where the terminal has no data to receive or transmit).

Regarding claim 10, Larsson discloses the method of claim 1, wherein transmitting during an awake mode comprises transmitting an awake mode signal to indicate a start of said awake mode (col.4, lines 48-61).

Regarding claim 11, Larsson discloses the method of claim 1, wherein transmitting during an awake mode comprises transmitting a power save signal to indicate an end of said awake mode (col.5, lines 4-10).

Regarding claim 13, Larsson discloses a program storage device having instructions readable by a machine that when executed by the machine result in: transmitting during an awake mode of a wireless communication device one or more data packets sent for transmission during a power save mode of said wireless communication device (col.4, lines 48-66). Note that Larsson inherently has a program storage device having instructions readable by a machine given that it shows a process; the process would be implemented by a processor that requires a "program storage device", e.g., a RAM, to function.

Regarding claim 14, the claim is rejected over the same reasons stated about claim 2, as it recites the same limitations as claim 2. See remarks about claim 2 above.

Regarding claim 15, the claim is rejected over the same reasons stated about claim 3, as it recites the same limitations as claim 3. See remarks about claim 3 above.

Regarding claim 17, the claim is rejected over the same reasons stated about claim 5, as it recites the same limitations as claim 5. See remarks about claim 5 above.

Regarding claim 18, the claim is rejected over the same reasons stated about claim 6, as it recites the same limitations as claim 6. See remarks about claim 6 above.

Regarding claim 22, the claim is rejected over the same reasons stated about claim 10, as it recites the same limitations as claim 10. See remarks about claim 10 above.

Regarding claim 23, the claim is rejected over the same reasons stated about claim 11, as it recites the same limitations as claim 11. See remarks about claim 11 above.

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5. Claims 25-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Beach et al. U.S. Publication No. 2004/0072588.

Regarding claim 25, Beach discloses an apparatus comprising a buffer to store one or more data packets during a power save mode of said apparatus and a transmitter to transmit said one or more data packets during an awake mode of said apparatus (P.0005, lines 13-29; P.0006, lines 1-7: P.0020; P.0021, lines 1-14; the mobile device during a power save mode, e.g. time period in which a the transmitter and receiver powers down and corresponds to a duration of audio or video signals forming an audio or video data packet, accumulates, i.e. buffer, data).

Regarding claim 26, Beach discloses the apparatus of claim 25, further comprising a processor adapted to transmit an awake signal to indicate a start of said awake mode (P.0026, lines 8-16).

Regarding claim 27, Beach discloses the apparatus of claim 26, wherein said processor is further adapted to transmit a power save signal to indicate an end of said awake mode (P.0006, lines 7-10; P.0007, lines 13-18; P.0008, lines 1-4, 13-14; P.0026, lines 8-23; the mobile unit processor cause the transmitter to transmit a polling signal to the access point indicating a selected period of audio information, in which the processor power down the transmitter and cause the mobile unit to work in power saving mode).

Regarding claim 28, Beach discloses the apparatus of claim 27, comprising a disabling unit to disable said transmitter during said power save mode (P.0007, lines 13-18).

Regarding claim 29, Beach discloses the apparatus of claim 28, wherein said disabling unit is able to enable said transmitter during said power save mode (P.0022, lines 3-6; P.0026, lines 2-16, the mobile unit in the power save mode has its transmitter/receiver inactive and activates its

transceiver to sent a signal indicating to the access point that the mobile unit is no longer in power saving mode and also transmit accumulated data in its buffer).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7-9, and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson et al. in view of Beach U.S. Publication No. 2003/0086443.

Regarding claim 7, Larsson discloses the method of claim 2, but fails to disclose wherein buffering comprises buffering one or more of said data packets based on a priority criterion. Beach discloses a similar method to Larsson for power saving in wireless LANs, in where access points buffer packets directed to mobile units in power save mode (P.0017, lines 13-19) and establish a criterion for transmission of packets (P.0019). The access points divides traffic addressed to the stations in two categories, data that which must be sent immediately and data that which can be held until asked for by the mobile unit. If the access points determine that the data pertains to the second category the data is treated as power saving mode PSM packets and are buffered. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention, to buffer data packets according to a priority criterion to determine which packets may be buffered in order to save power to mobile units maintaining off their receivers.

Regarding claim 8, the combination of Larsson and Beach discloses the method of claim 7, wherein transmitting comprising transmitting said one or more data packets based on said priority criterion. Beach discloses a similar method to Larsson for power saving in wireless LANs, in where access points buffer packets directed to mobile units in power save mode (P.0017, lines 13-19) and establish a criterion for transmission of packets (P.0019). The access points divides traffic addressed to the stations in two categories, data that which must be sent immediately and data that which can be held until asked for by the mobile unit. Data is sent immediately if it falls within the first category. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention, to transmit data based on a priority criterion because mobile units require information, which needs to be transmitted by the access points immediately, e.g. voice packets.

Regarding claim 9, the combination of Larsson and Beach discloses the method of claim 8, wherein said priority criterion relates to the priority of said one or more data packets. Beach discloses a similar method to Larsson for power saving in wireless LANs, in where access points buffer packets directed to mobile units in power save mode (P.0017, lines 13-19) and establish a criterion for transmission of packets (P.0019). The access points divides traffic addressed to the stations in two categories, data that which must be sent immediately and data that which can be held until asked for by the mobile unit. Data is sent immediately if it falls within the first category. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention, to establish a priority criterion related to the data packets, because data packets determines the transmission category, e.g. data that which must be immediately sent and data that can be buffer.

Regarding claim 19, the claim is rejected over the same reasons stated about claim 7, as it recites the same limitations as claim 7. See remarks about claim 7 above.

Regarding claim 20, the claim is rejected over the same reasons stated about claim 8, as it recites the same limitations as claim 8. See remarks about claim 8 above.

Regarding claim 21, the claim is rejected over the same reasons stated about claim 9, as it recites the same limitations as claim 8. See remarks about claim 9 above.

8. Claims 4 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson et al. in view of Liu et al. U.S. Publication No. 2004/0190467.

Regarding claim 4, Larsson discloses the method of claim 3, however fails to discloses wherein said wake-up trigger relates to an aggregate anticipated transmission time of the one or more data packets. Liu discloses a power saving mechanism to schedule wake- up time of the stations based on data priorities, data length, and data rates (see abstract for example). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to relate a wake-up trigger of a wireless device according to the transmission time of the data packets in order to minimize the time the station must remain awake to reduce power consumption of the mobile terminal.

Regarding claim 16, the claim is rejected over the same reasons stated about claim 4, as it recites the same limitations as claim 4. See remarks about claim 4 above.

9. Claims 12 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson et al. in view of Beach et al. U.S. Publication No. 2004/0072588.

Regarding claim 12, Larsson discloses the method of claim 1, but fails to disclose disabling a transmitter during said power save mode. Beach et al. discloses a method in which mobile unit powers downs it receiver and transmitter in a power save mode (P.0005, lines 13-18). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention, to disable a transmitter during said power save mode to conserve battery power.

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Regarding claim 24, the claim is rejected over the same reasons stated about claim 12, as it recites the same limitations as claim 12. See remarks about claim 12 above.

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10. Claims 30-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beach et al. U.S. Publication No.2004/0072588.

Regarding claim 30, Beach et al. discloses a wireless communication device (P.0007, lines 1-4) comprising: a buffer to store one or more data packets during a power save mode of said wireless communication device (P.0006, lines 10-12, 24-25); a transmitter adapted to transmit said at least one data packet during an awake mode (P.0007, lines 8-9; P.0023, lines 10-16) of said wireless communication device. Beach fails to disclose an omni-directional antenna operationally coupled to said transmitter. A wireless communication device inherently includes an antenna coupled to a transceiver to receive and transmit signals from/to a base station. At the time of the invention, it would have been obvious matter of design choice to a person of ordinary skill in the art to couple an omni-directional antenna to the transceiver because Applicant has not disclosed that an omni-directional antenna provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art would have expected Applicant's invention to perform equally well with any known type of antenna (as admitted by Applicant in his specification (page 4, lines 22-26) omnidirectional antenna are known in the art).

Regarding claim 31, Beach et al. discloses the wireless communication device of claim 30, further comprising a processor to produce said one or more data packets (P.0009, lines 12-17).

Regarding claim 32, Beach et al. discloses the wireless communication device of claim 31, wherein said transmitter is further adapted to transmit an awake mode signal to indicate a start of said awake mode (P.0007, lines 8-9; P.0026, lines 9-16).

Regarding claim 33, Beach et al. discloses the wireless communication device of claim 31, wherein said transmitter is further adapted to transmit a power save mode signal to indicate an end of said awake mode (P.0007, lines 8-9; P.0026, lines 20-23).

Regarding claim 34, Beach et al. discloses the wireless communication device of claim 31, further comprising a power source (P.0004, lines 1-3; wireless communication devices are battery powered) and circuitry to connect said transmitter to said power source during said awake mode (P.0007, lines 13-18). Although Beach doesn't explicitly disclose that has circuitry to connect the power source to the transmitter during an awake mode. He discloses that a processor controls the operation of the transmitter and receiver and periodically power down the transmitter and receiver for selected time intervals and activates the transmitter when it needs to transmit a data packet (P.0022, lines 1-6), the processor is the logic circuitry that controls the operations of the TX/RX. Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to recognize that the processor is the connection between the power source and the TX/RX and has the function to power down and power-up the TX/RX at the right periods of time to conserve power.

Regarding claim 35, Beach discloses the wireless communication device of claim 34, further comprising circuitry to disconnect said transmitter from said power source during a power save mode (P.0007, lines 13-18).

Regarding claim 36, Beach et al. discloses a wireless communication system comprising: a first wireless communication device adapted to transmit during an awake mode one or more data packets sent for transmission during a power save mode of said first wireless communication device (P.0005, lines 6-29; P.0007; P.0009, lines 1-17; P.0026, lines 8-23, the mobile units receive audio data packets at a period corresponding to the selected period of audio information, e.g. power saving

mode, and during that period the mobile unit processor prepares the audio information for transmission to the access point). Beach et al. fails to disclose a second wireless device adapted to receive said one or more data packets. It is well known in the art that when there is no direct path of transmission from one mobile unit to another; the communication is made through the access point of the communication network. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to transmit data during an awake mode to a second wireless device, because during an awake mode a wireless device establishes a communication session with the access points.

Regarding claim 37, Beach et al. discloses the wireless communication system of claim 36, wherein said second wireless device is further adapted to transmit during said awake mode one or more data packets sent for transmission during said power save mode (P.0005, lines 6-29; P.0007; P.0009, lines 1-17; P.0026, lines 8-23; the mobile units receive audio data packets at a period corresponding to the selected period of audio information, e.g. power saving mode, and during that period the mobile unit processor prepares the audio information for transmission to the access point).

Regarding claim 38, Beach et al. discloses the wireless communication system of claim 37, wherein said first wireless device is further adapted to transmit an awake mode signal to indicate a start of said awake mode (P.0006, lines 1-7; P.0026, lines 9-16).

Regarding claim 39, Beach et al. discloses the wireless communication system of claim 38, wherein said first wireless device is further adapted to transmit a power save mode signal to indicate an end of said awake mode (P.0006, lines 7-10; P.0026, lines 20-23).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marisol Figueroa whose telephone number is (571) 272-7840. The examiner can normally be reached on Monday Thru Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

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Marisol Figueroa

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JOSEPH FEILD